

**Notice of Allowability**

Application No.

10/039,186

Examiner

DANH C LE

Applicant(s)

COLLINS, DAVID ALLAN

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/31/01.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☒ The drawings filed on 31 December 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Munck on 10/14/2004.

Insert on line 1, page 11 of the specification: "FIGURE 4D is an illustration of a trunk idle list server side policy internal architecture according an exemplary embodiment of the present invention."

### ***Allowable Subject Matter***

The following is an examiner's statement of reasons for allowance:

Claims 1-22 are allowed.

As to claim 1, Hunter et al (US 6,731,599) teaches automatic load sharing trunking. Dobbins et al (US 6,711,171) teaches distributed connection oriented services for switched communications networks. Krimstock et al (US 6,735,299) teaches automatic call distribution groups in call center management systems. Wils et al (US 6,570,881) teaches high speed trunk cluster reliable load sharing system using temporary port down. Wils et al (US 6,608,812) teaches trunk arrangement in a computer network with intra trunk switch connections. Rose (US 2001/0002194) teaches exchange for communication network. The teaching of above prior arts either alone or in combination fails to teach the controller comprising N call application nodes

capable of executing plurality of trunk idle list server applications that allocate ones of said trunk lines to said call connections, wherein a first trunk idle list server application is executed on a first one of said N call application nodes and is associated with a second trunk idle list server application executed on a second one of said N call application nodes separate from said first call application node, said first and second trunk idle list server applications thereby forming a load sharing group server application, wherein said load sharing group server application receives trunk line allocation request from a call process being executed in said switch and selects one server applications associated with said trunk line allocation said first and second trunk idle allocate a trunk line to a call connection request according to load distribution algorithm.

As to claim 12, Hunter et al (US 6,731,599) teaches automatic load sharing trunking. Dobbins et al (US 6,711,171) teaches distributed connection oriented services for switched communications networks. Krimstock et al (US 6,735,299) teaches automatic call distribution groups in call center management systems. Wils et al (US 6,570,881) teaches high-speed trunk cluster reliable load sharing system using temporary port down. Wils et al (US 6,608,812) teaches trunk arrangement in a computer network with intra trunk switch connections. Rose (US 2001/0002194) teaches exchange for communication network. The teaching of above prior arts either alone or in combination fails to teach a controller comprising N call application nodes capable of executing a plurality of trunk idle list server applications that allocate ones of said trunk lines to said call connections, wherein a first trunk idle list server application

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executed on first one of said N call application nodes and is associated with a second trunk idle server application executed on a second one of said N call application nodes separate from said first call application node, said first and second trunk load sharing group server applications thereby forming application, wherein said load sharing group server application receives trunk line allocation request from call process being executed said switch and selects one of said first and second trunk idle list server applications to allocate said trunk line allocation request according trunk line to a call connection associated with said trunk line allocation request according a load distribution algorithm.

Dependent claims 2-11, 13-22 are allowable for the same reason.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANH C LE whose telephone number is 703-306-0542. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM TROST can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Danh C.Le



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